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Effect of Thermal Conductivity of Mold Wall Material on the Solidification of a Continuously Cast Billet or Slab, by N. K. Stepanov,
RUSSIAN, per. Izvestiya VUZ Chern Met, Vol 12, No 11, 1969, pp 50-54..
HB 8076

Sci/Mat
May 70

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The Problem of Automating the Temperature Schedule of Electric Furnace Heats, by M. F. Sidorenko, etal. RUSSIAN, per, Izv VUZ Chern Met, Vol 12, No 11, 1969, pp 60-63.
HB 8080

Sci-Mat
June 70

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Action of Ultrasonic Vibrations in the Crystallization (of Steels and Alloys) in Electroslag Remelting, by V. P. Kudel'kin.
RUSSIAN, per. Izv VUZ Chern Met, Vol 12, No 11, 1969, pp 64-70.
HB 8077

sci/tat
Jun 70

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Interaction Rates of Oxygen with Iron-Carbon Melts,
by K. M. Shakyrov, et al.
RUSSIAN, par, Izv. VUZ Chern. Met., No 12, 1969,
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BISI 8615

sci/mat
jan 71

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On the Conditions of Movement of Gas During the Sintering of Iron Ore Materials, by
V.P. Puzanov and V. I. Korotich,
RUSSIAN, per. Izv. VUZ Chern Met., No 12, 1969, pp 33-38.
BISI 8630

Aug 71

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Some Specific Features of Sintering a Fine Concentrate with an Increased Content of Magnesia and the Mineralogical Composition of the Sinter
by M.S. Bykov,
RUSSIAN, per. Izv. VUZ Chern Met., No 12, 1969, pp 39-44.
BISI 8631

Sep 71

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The Mechanism of the Variation in the Abrasive Wear Resistance of G13L Steel after Hardening, by V. N. Kashcheyev, Yu. D. Novomeyskiy. 6 pp.
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AIR/FTD/MT-24-287-70

may 71

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Modification and Micro-Alloying of Steels by Some Minor and Rare Earth Metals, by M.P. Braun, RUSSIAN, per. Izv. VUZ Chern Met., Vol 12, No 12, 1969, pp 108-113.
BISI 8660

Jun 71

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CERTAIN PROPERTIES OF GAS FLOW MOVEMENT IN DENSE LAYER
CHUKIN V V
UR. IVUZ. CHERNAYA METALLURGIYA, 1969, nr 12, pp 139-140

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The Calculation of Optimum Moisture Content of Dispersed Materials Before Pelletizing, by V. M. Vityugin.
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BISI 8282

Sci-Mat
Jul 70

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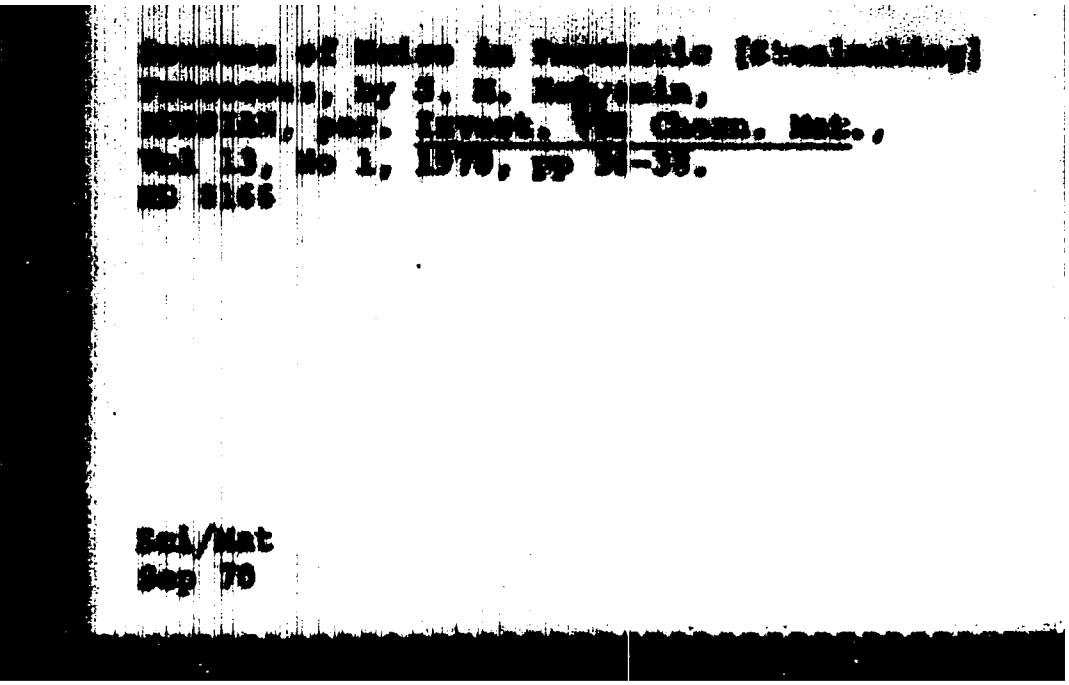

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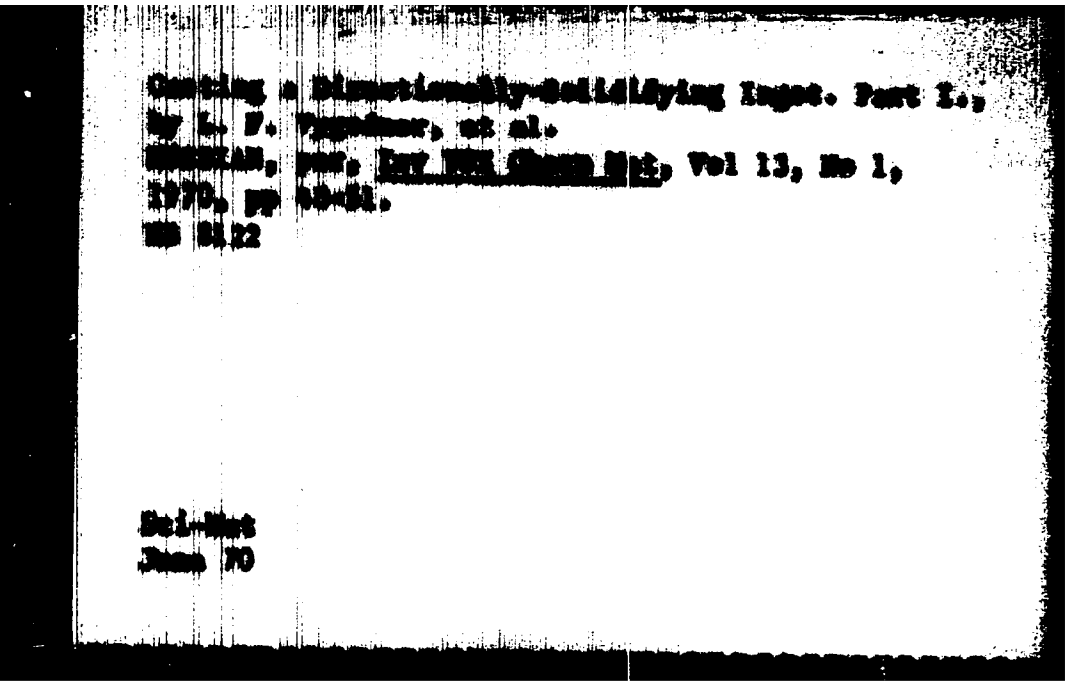

Coating of Dimethylsilyl-Substituted Ingot. Part I.,
by L. F. Yagupov, et al.
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USSR 541.22

Sol-Gel
June 70

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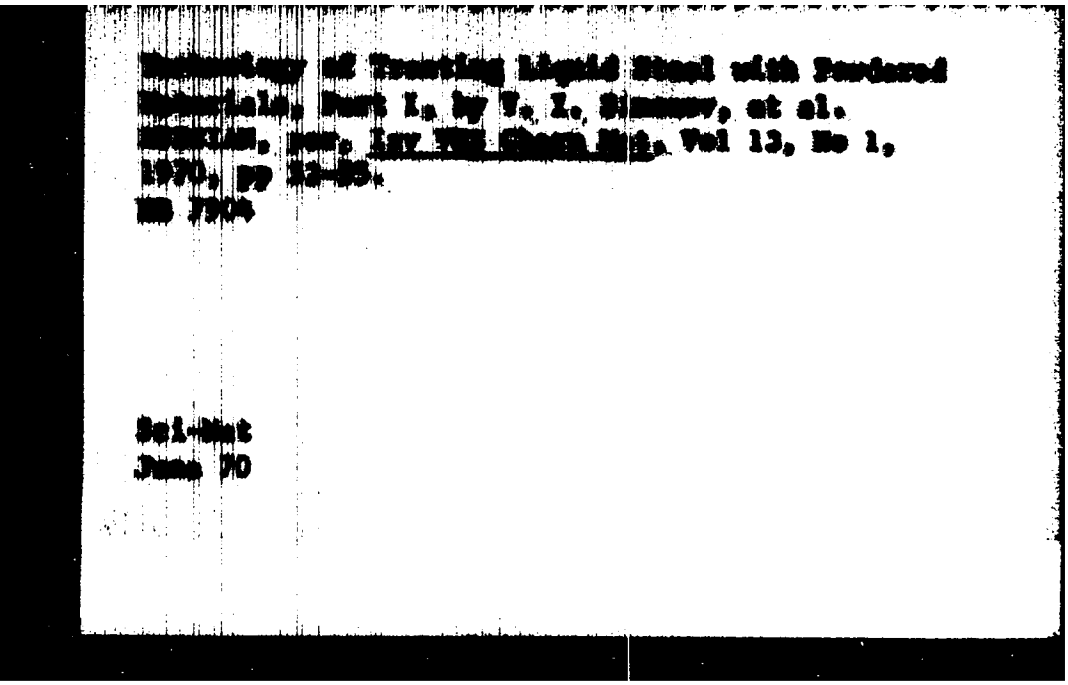

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State of Oxidation of the Steel Bath when Injecting Oxygen, by A.I. Stroganov and D. Ya. Povolotskii,
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MB 8116

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Comparison of the Stylus and the Polarization-Optical Methods of Study, by V. P. Polukhin, RUSSIAN, per. Izv. VUZ Chern. Met., No 1, 1970, pp 77-82.
BISI 9186

Aug 71

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100110027-6

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Measurement of the Amount of Oxygen Dissolved in Tantalum, by A. M. Anuchkin.
RUSSIAN, per, Izv VUZ, Chern Met, Vol 13, 1970, No 1, pp 140-142.
*AEC/ORNL-Tr-2478

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The Kinetics of Multi-Component Reactions at the Metal-Slag Boundary - 11, by
A.S. Churkin,
RUSSIAN, per. Izv. VUZ Chern Met., No 2, 1970, p 5-9
BISI 8673

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Influence of the Volume of Sucked Air on the Sintering Process Parameters, by
M.S. Bykov,
RUSSIAN, per. Izv. VUZ Chern Met., No 2, 1970, p 39-.
BISI 8759

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Behavior of a Stream of Liquid Metal in Vacuum,
by G. A. Sokolov and V. D. Zavrashin,
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Jun 71

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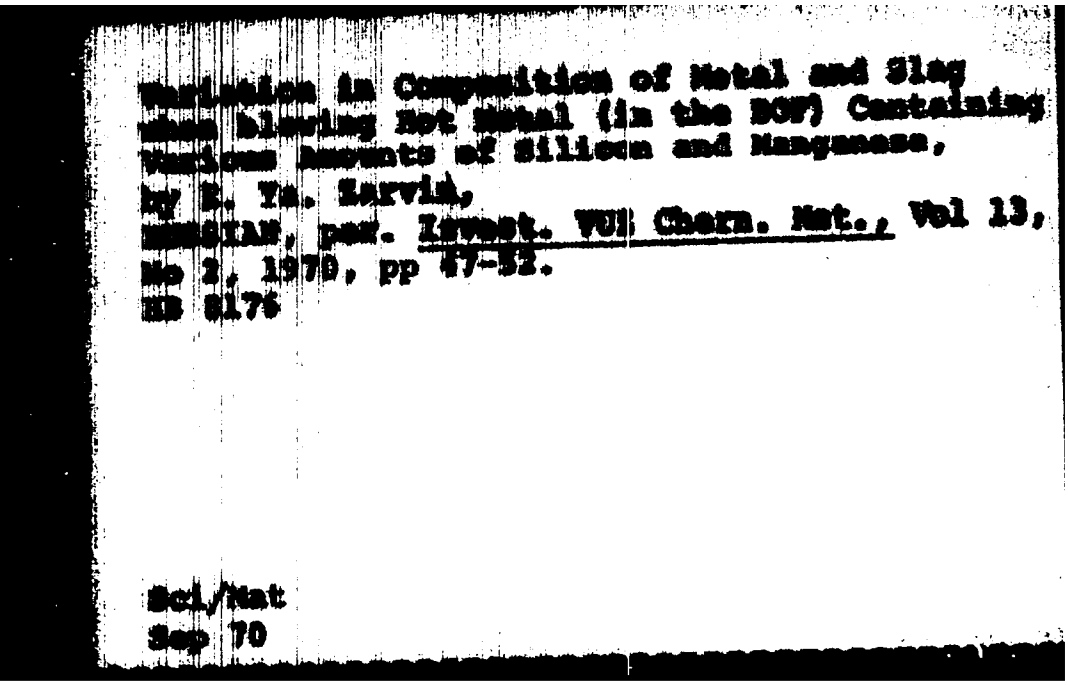

Distribution in Composition of Metal and Slag
when Melting Hot Metal (in the BOF) Containing
Various Amounts of Silicon and Manganese,
by E. Ya. Sarvin,
[illegible], per. Izvest. VUZ Chern. Met., Vol 13,
No 2, 1970, pp 47-52.
UDC 6176

Sci./Nat
Sep 70

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Yu. A. Nekhendzi (deo). Ya. M. Iyonkina

Properties of cast chromium-nickel alloys containing niobium and molybdenum, by Yu. A. Nekhendzi, Ya. M. Iyonkina. 8 pp.
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AIR/FTD-MT-24-1125-71

may 72

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Symmetrical Heating and Cooling of a Plate in a Direct Flow, by A. S. Telegin, V. P. Zavarzin, 5 pp.
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AMM/FSTC/HT-23-375-72

March 72

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V. Sokolov

Viscosity of melted silicates containing oxides of iron, manganese, and calcium. 12 pp.
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Yu. S. Nechayev

Using the specific heat method to study vacancies.
6 pp.
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AIR/FTD-MC-23-85-72

July 72

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Short Term Creep of Metals and Alloys
Under Conditions of Aerodynamic Heating,
by I. N. Bogachev.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedenii. Chernaya Metallurgiya,
No 4, 1970, pp 142-147.
NTC 72-10895-11F
Nasa TT F 13633 10 pp

May 72

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Industrial Investigations of the Sintering Process in Order to Develop the Method of Controlling Thermal Conditions for the Ignition
RUSSIAN, per. Izv. VUZ Chern Met., No 5, 1970, pp 23-27.
BISI 9072

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Mechanical Forces and Their Effect on the Permeability of Gas in a Sinter Mix, by V.I. Grankovskiy,
RUSSIAN, per. Izv. VUZ Chern Met., No 5, 1970, pp 28-.
BISI 9071

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Some Problems in the Purging of Molten Steel Baths by Co Bubbles, by T. G. Sabirzyanov, RUSSIAN, per. Izv. VUZ Chern Met., No 5, 1970, pp 42-46.
BISI 9080

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Investigation into the Deoxidizing Power of Complex Deoxidizers, [Compared with Aluminum Alone], by E. N. Mikhailov, RUSSIAN, per. Izv VUZ Chern Met., Vol 13, No 5, 1970, pp 47-50.
HB 8641

Aug 72

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Gruzdev, Yu. A.

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BISI 10163

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Formation of a bar by directional solidification,
by L. F. Vygodskaya et al.

Moscow, IVUZ Chernaya Metallurgiya, No. 5, 1970,
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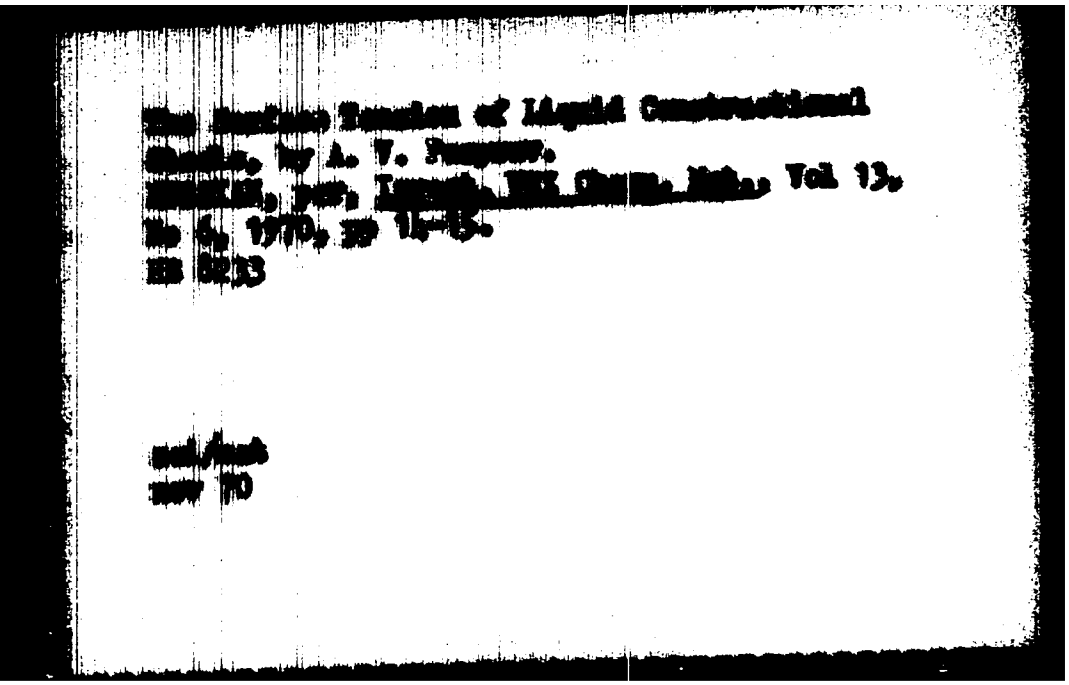

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Structural Features and Metallurgical Properties of Pellets from Concentrates of Fibrano-Magnetite Ores, by M. Ya. Ostroukhov, RUSSIAN, per. Izvestiya VUZ Chern Met., Vol 13, No 6, 1970, pp 33-37.
HB 8235

Sui/Mat
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Some Features of Slag Formation During the Refining of Pig Iron with Reduced Manganese Content in an Oxygen Converter, by
E. Ya. Zavin,
RUSSIAN, per. Izv. VUZ Chern. Met., No 6, 1970, pp 43-47.
BISI 9356

Aug 71

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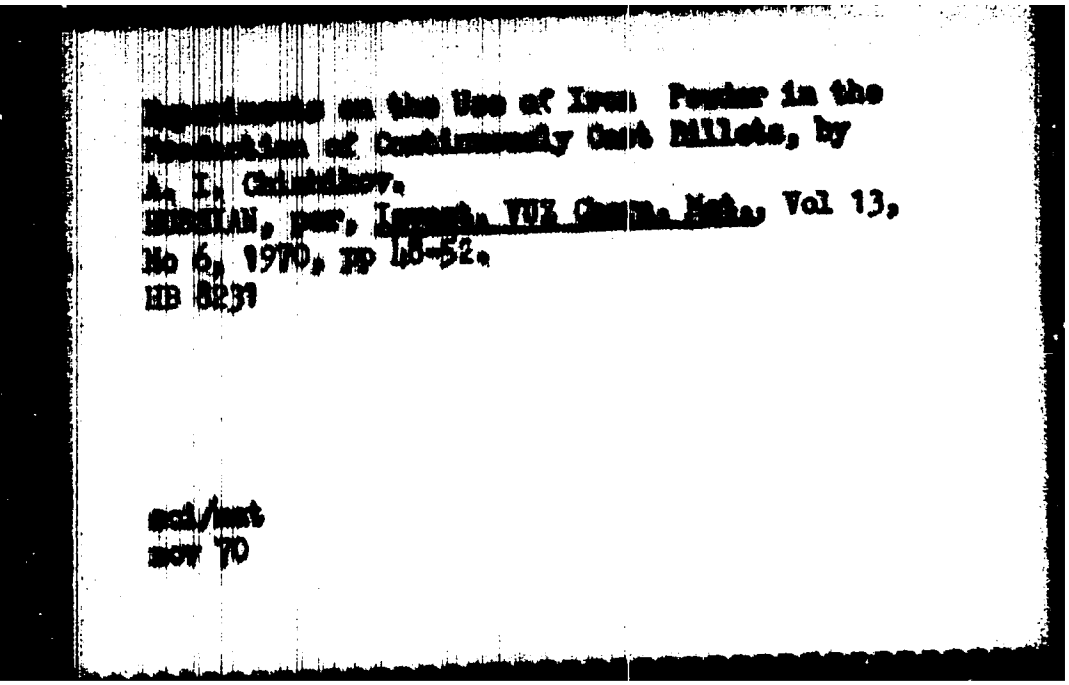

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A. I. Chelishchev.
[illegible], Vol 13,
No 6, 1970, pp 48-52.
HB 8231

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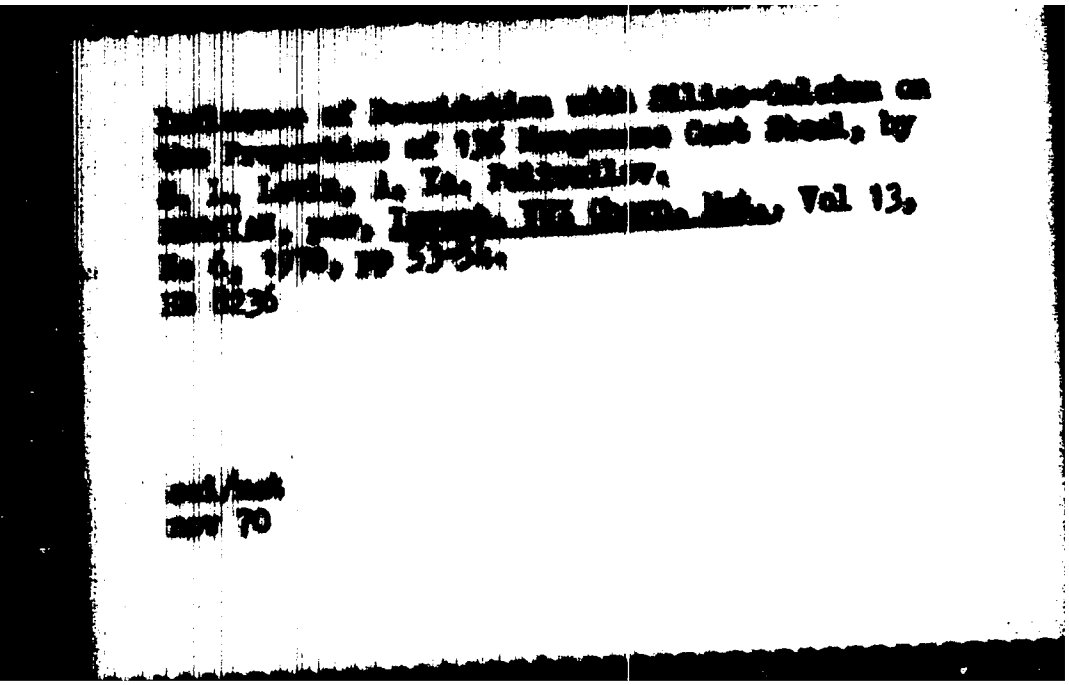

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Influence of Gases on the Welding-up of Cavities During Rolling, by V. I. Andreev, RUSSIAN, per. Izvestiya VUZ Chern. Met., Vol 13, No 6, 1970, pp 67--70.
HB 8237

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Influence of Pressure on the Elimination of Oxygen, Nitrogen, and Non-metallic Inclusions from Steel in Vacuum Arc Remelting, by
D. Ya. Povolotskii,
RUSSIAN, per. Izvestiya VUZ Chern. Met.,
Vol 13, No 6, 1970, pp 71-74.
HB 8238

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Effects of the Temperature at Which the 50N and 79NM Permalloy Alloys are Annealed on Their Tecture and Magnetic Properties, by N. F. Dubrov.
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NTC 72-12203-11F

July 72

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A Study of the Oxidising Properties of Ferrous Slags by the E,M.F. Method, by A.V. Sergeev and S.I. Filippov,
RUSSIAN, per. Izv. VUZ Chern Met., No 7, 1970, pp 9-12.
BISI 9244

Sep 71

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Physical Characteristics of the Slags of the CaO-SiO_2-MgO-Al_2O_3-Flux System, by
G. A. Sokolov.
[illegible], per, Izv VUZ Chern Met, No 7, 1970,
pp 22-25.
[illegible]272

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Sci-Mat
Dec 70

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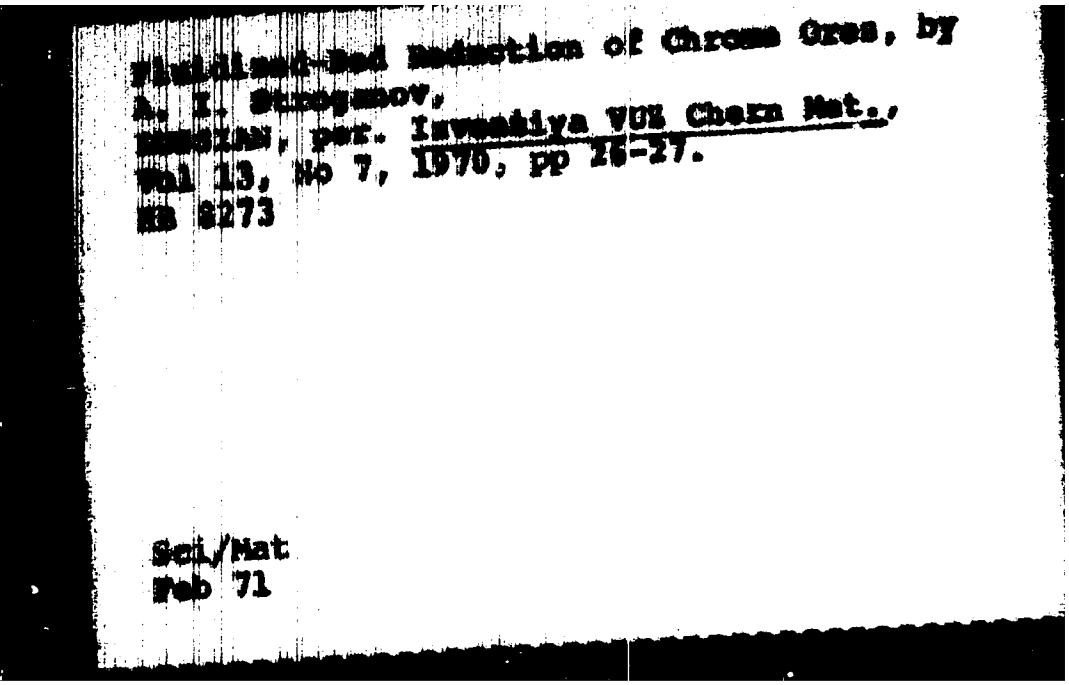
Filament-Red Detection of Chrome Ores, by
A. I. Stroganov,
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EB 8273

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Feb 71

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Supplementary Reduction of Iron Powder,
by S. S. Kiparisov, and G. A. Libenson,
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HB 8274

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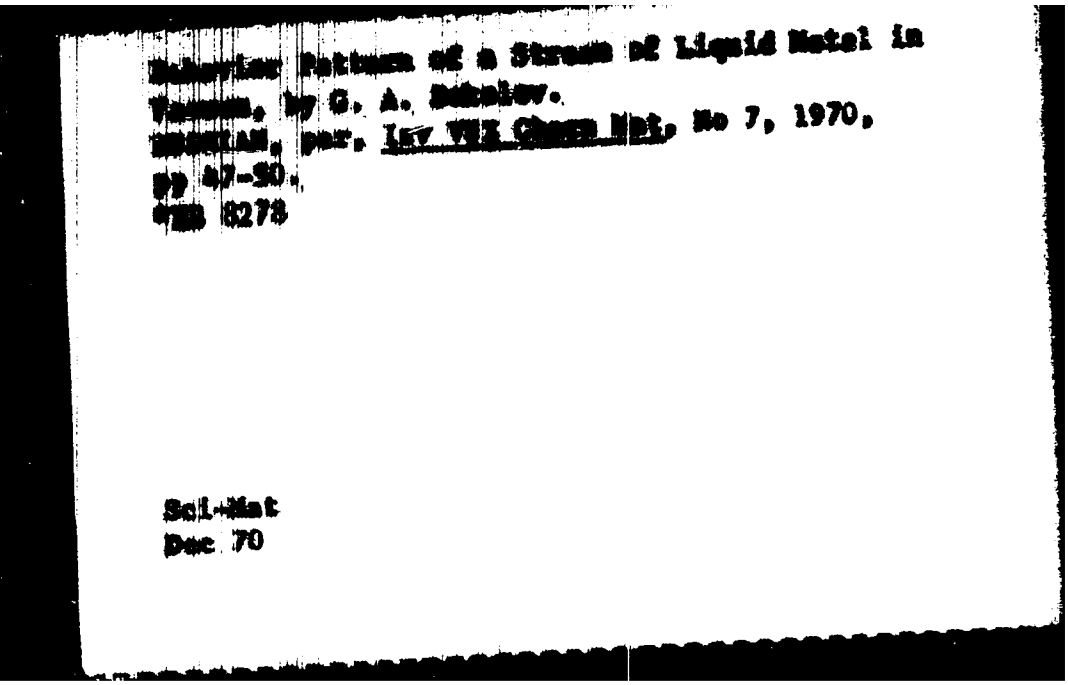

Deformation Pattern of a Stream of Liquid Metal in
Vacuum, by G. A. Nekrasov.
[illegible], per. Izv VUZ Chern Met, No 7, 1970,
pp 47-50.
VTB 8278

Sci-Mat
Dec 70

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Partition of Phosphorus, Manganese, and Silicon Between Metal and Slag When Melting Sponge Iron in an Atmosphere of Hydrogen, by N. O. Sabra, and E. M. El-Bannari,
RUSSIAN, per. Izv. VUZ Chern Met., Vol 13, No 7, 1970, pp 51-53.
HB 8279

Jun 71

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Nature of Nonmetallic Inclusions of Rare-Earth Metals in Low-Carbon Cast Steel, by Kh. A. Sepp el',
RUSSIAN, per. Izv. VUZ Chern Met., Vol 13, No 7, 1970, pp 54-56.
HB 8280

Jun 71

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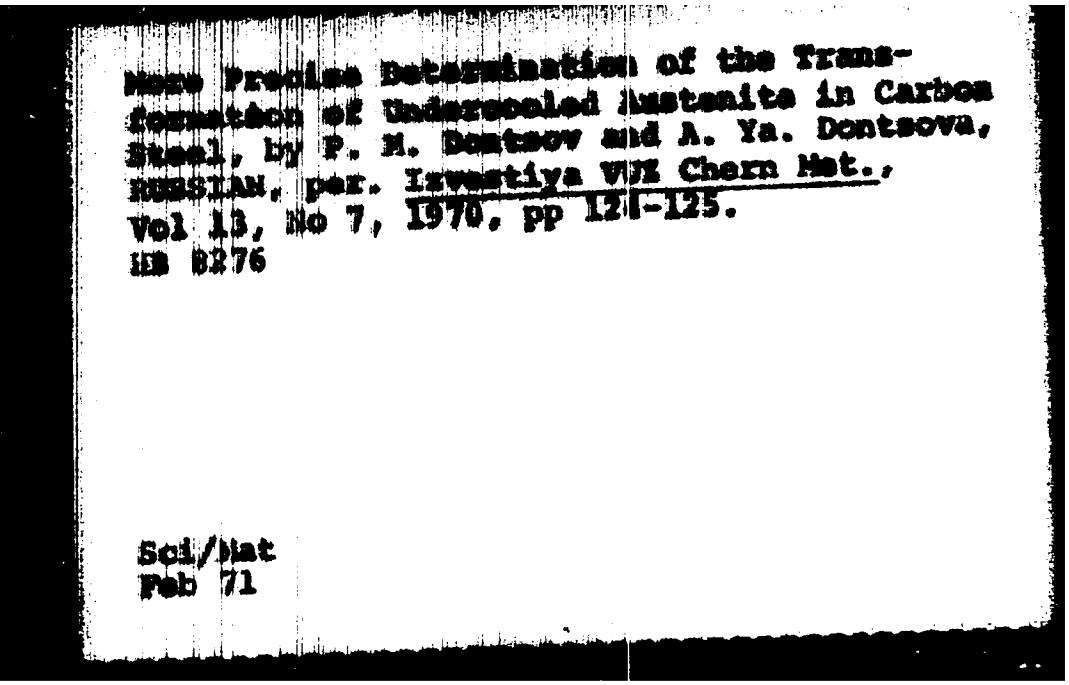

More Precise Determination of the Trans-
formation of Undercooled Austenite in Carbon
Steel, by P. M. Dontsov and A. Ya. Dontsova,
RUSSIAN, per. Izvestiya VUZ Chern Met.,
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UR 8276

Sci/Mat
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The Recrystallization of Austenite in Annealed High-Speed Steel Being Heated, by A. N. Popandopulo and M. E. Mormaleva, RUSSIAN, per. Izvestiya VUZ Chern. Met., Vol 13, No 7, 1970, pp 125-129.
HB 8277

Sci/Mat
Feb 71

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High-Temperature Nitriding of Calorized Steel, by
A. P. Sofronenkov, L. G. Timonina, 5 pp.
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AIR/FTD-HT-23-328-71

HB 8257

Sept 71

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Effect of [Continuous-Casting] Mold Wall Thickness on the Maximum Temperature of the Mold Working Surface, by A. D. Akimenko, RUSSIAN, per Izvestiya VUZ Chern. Met., Vol 13, No 7, 1970, pp 163-166.
HB 8260

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100110027-6

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Monitoring the Carbon Content of Steel by the Thermoelectric Force Method, by
V. Yu. Kagenov,
RUSSIAN, per. Izvestiya VUZ Chern. Met.,
Vol 13, No 7, 1970, pp 180-183.
HB 8258

Sci/Mat
Feb 71

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100110027-6

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Elimination of Nonferrous Metal Impurities from Steels Being Melted in Vacuum, by B. K. Chernov, and N. V. Pomin, RUSSIAN, per. Izvestiya VUZ Chern. Met., Vol 13, No 8, 1970, pp 23-24.
HB 8005

Sci/Mat
Feb 71

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Evaluation of the Condition of the Blast-Furnace Stock Column, by M. A. Stefanovich, and V. S. Novikov,
RUSSIAN, per. Izv. VUZ Chern. Met., Vol 13, No 8, 1970, pp 25-27.
HB 8304

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Structural Features and Metallurgical Properties of Pellets from Concentrates of Titano-Magnetite Ores, Part II, by M. Ya. Ostroukhov, RUSSIAN, per. Izvest VUZ Chern Met., Vol 13, No 8, 1970, pp 33-37.
HB 8621

Nov 71

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100110027-6

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Selection of Corrugation Parameters on the Surface of a Steel Ingot, by A,M. Bigeev, RUSSIAN, per. Izv VUZ Chern Met. No 8, 1970, pp 50-54.
BISI 10429

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Structure of Carbon Steel Chromium-Impregnated Before and After Preliminary Decarburization, by E. P. Ponomarenko, & B. L. Lyashchinskii, RUSSIAN, per. Izvestiya VUZ Chern. Met., Vol 13, No 8, 1970, pp 127-131.
HB 8301

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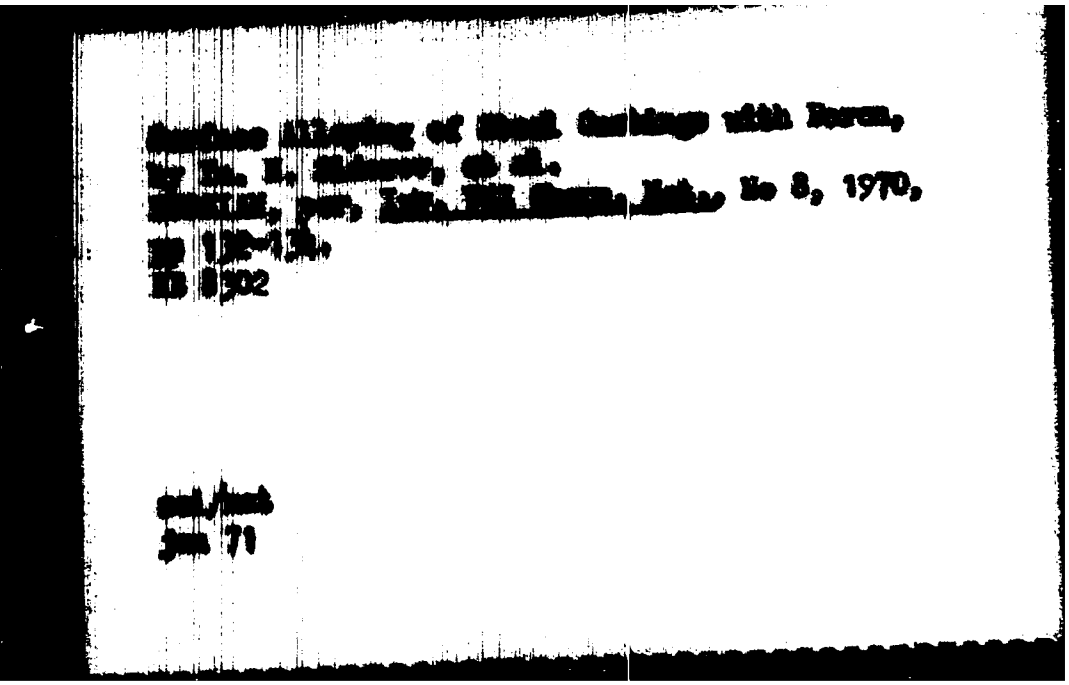

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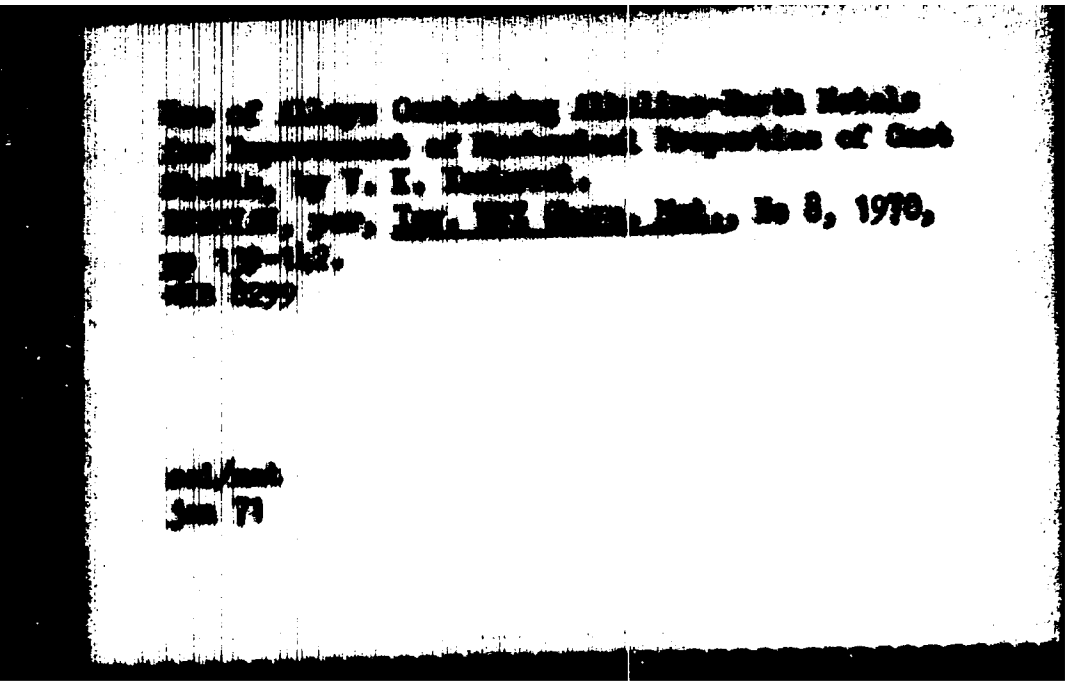

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Determination of Trace Amounts of Antimony in Transformer Steel, by A. M. Dymov and L. Z. Kozel',
RUSSIAN, per. Izv. VUZ Chern Met., Vol 13, No 8,
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HB 8303

June 71

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Investigation of Metallized-Sinter Production Technology, by A.N. Pokhvisnev, RUSSIAN, per. Izvest VUZ Chern Met., Vol 13, No 9, pp 25-28, 1970.
HB 8514

BISI 9280

Nov 71

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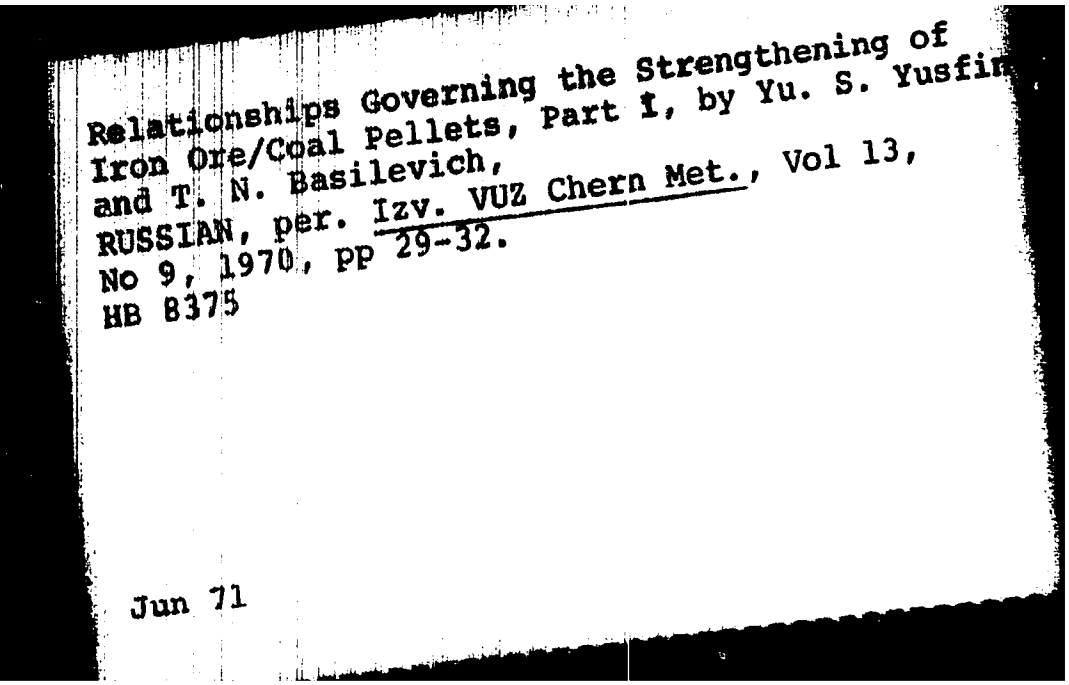
Relationships Governing the Strengthening of
Iron Ore/Coal Pellets, Part I, by Yu. S. Yusfin
and T. N. Basilevich,
RUSSIAN, per. Izv. VUZ Chern Met., Vol 13,
No 9, 1970, pp 29-32.
HB 8375
Jun 71

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D. S. Popov A. F. Vishkarev

Viscosity properties of Iron-Carbon metal melts with nickel and tungsten additives. 6 pp.
RUSSIAN, per, Izvestiya VUZ. Chernaya Metallurgiya, Vol 13, No 9, 1970, pp 52-56
AIR/FTD-HC-23-95-72

July 72

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The Mechanism of Formation of Corner Segregatio
n and Longitudinal Hot Tears in [Killer] Steel
Ingots, by D. P. Kokushkin and D. K. Butakov,
RUSSIAN, per. Izv. VUZ Chern. Met., Vol 13,
No 9, 1970, pp 57-60.
HB 8334

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STRUCTURAL AND PHASE CHANGE IN FERRITE STEELS DURING THERMAL TREATMENT
VARLI K V
UR: IVUZ. CHERNAYA METALLURGIYA, 1970, nr 9, pp 117-121

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F. Tkachenko

Volume measurements of ferrite magnesium cast iron during heating. 5 pp.
RUSSIAN, Izvestiya VUZ, Chernaya metallurgiya, Vol 13, No 9, 1970, pp 144-147
AIR/FTD-HC-23-97-72

nov 72

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On the Possibility of Checking Steel Composition
by the Thermo-Electromotive Force Method,
by V. Yu. Kaganov,
RUSSIAN, per, Izv VUZ Chern Met., Vol 13,No 9,
1971, pp 171-174.
HB 8313
NTC 72-60402-13H

Mar 72

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100110027-6

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The Thermodynamics of Stratified Oxide and Fluoride Systems. The System CaO SiO_2 CaF_2, by I. T. Sryvalin, RUSSIAN, per. Izv. VUZ Chem Met., No 10, 1970, pp 5-9.
BISI 9553

Nov 71

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Influence of Surface Characteristics of Iron at Its Interface with Oxides on the Speed of Surfacing of Nonmetallic Inclusions, by V. V. Khlynov and V. L. Ishimov,
RUSSIAN, per. Izv. VUZ Chern Met., Vol 13, No 10, 1970, pp 10-14.
HB 8341

June 71

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Elimination of Oxygen from Solidifying Steel,
by A. D. Kramarov, and I. B. Gutovskii,
RUSSIAN, per. Izv. VUZ Chern Met., Vol 13, [redacted]
No 10, 1970, pp 42-43.
HB 8344

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Nonmetallic Inclusions in Constructional Titanium-Containing Steels, by R.E. Danichek, RUSSIAN, per. Izvest. VUZ Chern Met., Vol 13, No 10, pp 48-51, 1970,
HB 8360

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D. Ya. Povolotskii

Effect of Rare Earth Metals on Structure and Ductility of Chromium-Nickel Stainless Tube Steel.

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NTC 72-13307-11F

HB 8342

Oct 72

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APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100110027-6

Kinetic Features of the Process of Carbon Elimination from Liquid Steel to Very Low Levels, by
V. S. Rimkevich,
RUSSIAN, per. Izv. VUZ Chern Met., Vol 13, No 11, 1970, pp 10-15.
HB 8374

June 71

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100110027-6

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Laws of Hardening of Metallized Pellets Communication 11, by Yu. S. Yusfin, RUSSIAN, per. Izv. VUZ Chern. Met., Vol 13, No 11, 1970, pp 41-43.
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Influence of Refining Slag on the Nonmetallic Inclusions in Type 1% C, 1.5% Cr Bearing Steel ShKh15.,
by S. G. Voinov,
RUSSIAN, per. Izv. VUZ Chern Met., Vol 13, No 11,
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HB 8377

June 71

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Critical Levels FO Oxidation of the (Steel) Baths Being Desulphurized, by A. S. Zubrev, RUSSIAN, per. Izv. VUZ Chern. Met., Vol 13, No 11, 1970, pp 54-57.
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L. N. Kats

Behaviour of Nitrogen During Remelting of Nitrogen-Containing Stainless Steel With Oxygen Blowing.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedenii, Chernaya Metallurgiya, No 11, 1970, pp 73-76
NTC 72-13105-11F

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Distribution of Specific Stress in the Area of Deformation During the Rolling of Metal Rings, by P. I. Polukhin.
RUSSIAN, per, Izvestiya Vyashikh Uchebnykh Zavedenii, Chernaya Metallurgiya, No 11, 1970, pp 77-80
NTC 72-60145-13H

June 72

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Interfacial Distribution of Boron and Cerium in Fe-C Melts, by K. S. Prosvirin and V. P. Chepeleva,
RUSSIAN, per. Izv. VUZ Chern. Met., Vol 13, No 11, 1970, pp 134-137.
*HB 8371

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Determination of the Wettability of Metal Powders [and Pastes] by Iron-Carbon Melts, by E. B. Ten and A. M. Mikhailov,
RUSSIAN, per. Izv.. VUZ Chern Met., Vol 13, No 11, 1970, pp 144-147.
HB 8372

June 71

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Technical and Economic Characteristics of Electron-Beam and Vacuum-Arc Remelting Processes, by V. A. Romenets,
RUSSIAN, per. Izv. VUZ Chern Met., Vol 13, No 11, 1970, pp 177-182.
HB 8489

Sep 70

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The Magnetising Force of the Stator Winding of an Inverted Direct Current Machine, by F. A. Goryainov.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedenii, Elektromekhanika, No 11, 1970, pp 1276-1278
NTC 72-12107-09C

July 72

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Eliminayion of Oxygen From Melts Depending on the Interaction With Deoxidation Products During Melting in Vacuum, by B. G. Chernov.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedenii. Chernaya Metallurgiya, No 12, 1970, pp 5-7
MIC 72-12124-11F

July 72

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Causes of Nonuniformity of the Effect of Blast Furnace Burden Enrichment on the Coke Rate, by A.N. Chernyatin and M.Ya. Ostroukhov, RUSSIAN, per. Izv. VUZ Chern Met., Vol 13, No 12, 1970, pp 23-28.
HB 8498

June 71

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100110027-6

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Influence of Blast Volume on the Loss in Pressure and Distribution of the Gas Flow in Large Blast Furnaces, by G.G. Efimenko,
RUSSIAN, per. Izv VUZ Chern Met., Vol 13,
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HB 8505

Sep 71

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100110027-6

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Methods Used and Some Results Obtained by Simulation of the Hydrodynamics of Blowing Argon Through Metal, by V.M. Shevekev, and L. M. Kislitsina,
RUSSIAN, per. Izv VUZ Chern Met., Vol 13, No 12, 1970, pp 46-50.
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Sep 71

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Electrical Conductivity of Slags Based on [Calcium] Fluoride, by A. E. Koval', and N. M. Chuiko, RUSSIAN, per. Izv. VUZ Chern Met., Vol 13, No 12, 1970, pp 71-74.
HB 8506

June 71

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Kinetics of the Sintering of Hematite, by
V. M. Sukhinina,
RUSSIAN, per. Izv. VUZ Chern Met., No 1, 1971,
pp 26-30.
BISI 9310

June 71

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Thermal Effect During the Ladle Deoxidation and Alloying of Steel-i, by I. P. Kazachkov, RUSSIAN, per. Izv. VUZ Chern. Met., No 1, 1971, pp 68-70.
BISI 9311,

Jul. 71

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The Coefficient of Transverse Deformation During Elastic-Plastic Deformation, by M.A. Zaikov and Zh. M. Blednova,
RUSSIAN, per. Izv VUZ Chern Met., No 1, 1971,
pp 75-
BISI 9312

Jul 71

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Effects of the Temperatures During Hot Rolling on the Structure and Mechanical Properties of Grade 08kp Steel, by V.P. Polukhin,
RUSSIAN, per. Izv. VUZ Chern Met., No 1, 1971, pp 82-85.
BISI 9313

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The Stress State in Forging with Flat and Shaped Blocks, by G. D. Del',
RUSSIAN, per. Izv. VUZ Chern. Met., No 1, 1971-
pp 106-109.
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Jul 71

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P. P. Arsent'yev S. I. Filippov
Filippov

Viscosity characteristics of liquid iron. 6 pp.
RUSSIAN, per, Izvestiya VUZ. Chernaya Metallurgiya,
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AIR/FTD-HC-23-164-72

July 72

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EFFECT OF THE CHAMBER WIDTH ON THE BEARING CAPACITY OF A RADIAL HYDROSTATIC BEARING
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UR: IZV: VUZ, AVIATSIONNAIA TEKHNIKA, v 14, nr 1, 1971, pp 137-142.

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The Influence of Vanadium on the Structure of High-Carbon Steel, by L. L. Pyatakova, RUSSIAN, per. Izv. VUZ Chern Met., No 1, 1971, pp 142-144, BISI 9315

Jul 71

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